

To: CN=Phil North/OU=R10/O=USEPA/C=US@EPA;CN=Palmer Hough/OU=DC/O=USEPA/C=US@EPA[]; N=Palmer Hough/OU=DC/O=USEPA/C=US@EPA[]
Cc: []
From: CN=Jeff Frithsen/OU=DC/O=USEPA/C=US
Sent: Thur 10/4/2012 6:51:28 PM
Subject: NRC Regulations for design, closure and monitoring of uranium mill tailings
[CFR-2012-title10-vol1-part40-appA\[1\].pdf](#)

FYI... potential background information for Bristol Bay Assessment

Jeffrey B. Frithsen, Ph.D.
Acting Associate Director for Ecology
National Center for Environmental Assessment, 8623-P
Office of Research and Development, U.S. Environmental Protection Agency
1200 Pennsylvania Avenue, NW, Washington, DC 20460
703-347-8623 (office); 410-336-8535 (cell)

Physical Address (FedEx, UPS, and Overnight Deliveries)
Two Potomac Yard Building - Room N7741
2733 S. Crystal Drive
Arlington VA 22202

Here is a pdf of 10 CFR Part 40 Appendix A which contains all of NRC regulations for design, closure and monitoring of uranium mill tailings (aka uranium byproduct materials) impoundments. It covers the design and monitoring of these impoundments to prevent and detect the release of both radioactive and non-radioactive constituents (e.g., Criterion 13 which includes metals, organics, etc) to all media (soil, air, groundwater, surface water). It also covers corrective actions if releases are detected. Finally it addresses bonding and long term care of mill tailings impoundments.

These regs are based on the regulations EPA promulgated for these materials as mandated by Congress in the Uranium Mill Tailings Radiation Control Act (UMTRCA). These EPA regulations for uranium mill tailings (aka uranium byproduct materials) are contained in 40 CFR Part 192. I tried to find 40 CFR Part 192 in a complete version in pdf from the website (<http://www.gpo.gov/fdsys/search>), but it looks like they were captured in a piecemeal fashion. The EPA regs are really supplementary information as they were incorporated practically verbatim in the NRC regs I have attached.